

PATENT ABSTRACTS OF JAPAN

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(21)Application number : 10-265721 (71)Applicant : RICOH CO LTD

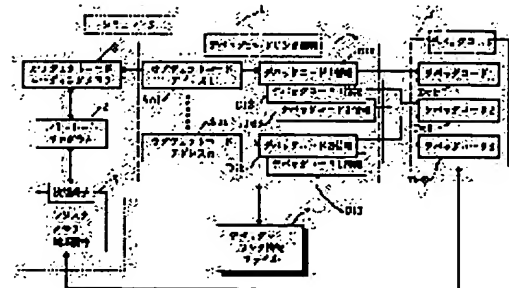
(22)Date of filing : 03.09.1998 (72)Inventor : AKIYOSHI
KUNIHIRO

(54) SIMULATOR

(57)Abstract:

PROBLEM TO BE SOLVED: To easily perform various processes such as graph display with good reproducibility while evading bug mixture and to improve debugging efficiency by executing debug codes linked with addresses of execution objects of object codes by link information at the time of object code execution in synchronization with the execution of the object codes in the addresses.

SOLUTION: The simulator 1 checks whether pieces Di1 to Din of debug code information are registered in debug code link information 4 corresponding to object code addresses Ao1 to Aon of current execution and simulates them by executing the instructions of the



object codes as they are when not registered. When they are registered, it is checked whether or not debug codes Dc1 to Dcn linked by the pieces Di1 to Din of debug code information are execution objects according to valid/invalid information on the debug code link information 4, and processings are executed for the debug codes Dc1 to Dcn which have made the execution-valid calls.

LEGAL STATUS

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**TITLE: Simulator for debugging program information,
has debug
code link data file to link debug code with
respective
object code addresses to debug program
synchronizing with
praxis of executed object code**

PRIORITY-DATA: 1998JP-0265721 (September 3, 1998)

PATENT-FAMILY:

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ABSTRACTED-PUB-NO: JP2000076094A

BASIC-ABSTRACT:

**NOVELTY - A debug code (6) for performing a predetermined
process is produced
using a high level language and is compiled. A link information
is comprised**

in a debug code link information file (7) to link the debug code with respective object code addresses (Ao1-Aon). When the object code is executed, the linked debug code is performed synchronizing with the praxis of the executed object code.

USE - For debugging program formulated in high level language.

ADVANTAGE - An efficient simulation is performed by securing the reproducibility of the combination of several debug codes and shortening debugging time. The debug efficiency is increased by continuous visual observation of internal parameter of the program.

DESCRIPTION OF DRAWING(S) - The figure shows a conceptual diagram of the simulator.

Debug code 6

Debug code link information file 7

Object code addresses Ao1-Aon

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Basic Abstract Text - ABTX (1):

NOVELTY - A debug code (6) for performing a predetermined process is

produced using a high level language and is compiled. A link information is
comprised in a debug code link information file (7) to link the
debug code with
respective object code addresses (Ao1-Aon). When the object
code is executed,
the linked debug code is performed synchronizing with the
praxis of the
executed object code.

Basic Abstract Text - ABTX (6):
Debug code link information file 7

Title - TIX (1):

Simulator for debugging program information, has debug code
link data file
to link debug code with respective object code addresses to
debug program
synchronizing with praxis of executed object code

Standard Title Terms - TTX (1):

SIMULATE DEBUG PROGRAM INFORMATION DEBUG CODE
LINK DATA FILE LINK DEBUG
CODE RESPECTIVE OBJECT CODE ADDRESS DEBUG PROGRAM
EXECUTE OBJECT CODE